Patent claims

1.    A method for controlling data interchange between mobile
subscribers (A, B) in a packet-oriented mobile communication
network, where
-      each subscriber (A, B) is managed at a particular control
       network node (SGSN) in the mobile communication network on
       the basis of his respective current location in the mobile
       communication network,
-      connections from/to a mobile communication terminal
       associated with the mobile subscriber (A, B) are
       controlled (SGSN) within the mobile communication network
       by the appropriate control network node,
in which
-      the control network node (SGSN) stores an address register
       containing all of the addresses associated with the mobile
       subscribers (A, B) managed by the control network node
       (SGSN),
-      the control network node (SGSN) takes incoming data
       packets and reads a destination address associated with
       the data packets, and uses a search function to compare
       said destination address with the address register,
-      if the destination address is present in the address
       register then the data packets are handled and forwarded
       within the mobile communication network exclusively by the
       control network node (SGSN),
-      if the destination address is absent from the address
       register then the data packets are routed from the control
       network node (SGSN) to a further network node (GGSN) in
       the mobile communication network for the purpose of
       further handling.

2.    The method as claimed in claim 1,
characterized

in that the address register chosen is a "hashing table" with a
hash function.

3.    The method as claimed in either of claims 1 and 2,
characterized
in that the mobile radio communication network chosen is a GPRS
or UMTS network.

4.    A mobile radio communication network having at least one
control network node (SGSN), at which mobile subscribers (A, B)
in the mobile radio communication network are managed on the
basis of their current location and connections from/to a
communication terminal associated with a mobile subscriber (A,
B) managed at the control network node (SGSN) are controlled
within the mobile radio communication network,
characterized
in that the control network node (SGSN) contains a filter
function which is used to filter incoming data packets on the
basis of a destination address which is respectively indicated
in the data packets.

5.    The mobile radio communication network as claimed in
claim 4,
characterized
in that the control network node (SGSN) contains a table which
records all subscribers (A, B) managed by the control network
node (SGSN) with the addresses appropriately associated with
the subscribers.

6.    The mobile radio communication network as claimed in
claim 5,
characterized
in that the filter function is able to perform a comparison
between a destination address indicated in a data packet and
the table's

recorded addresses appropriately associated with the
subscribers.


7.    The mobile radio communication network as claimed in one
of claims 4 to 6,
characterized
in that the control network node (SGSN) contains a routing
function which can be used to route selected data packets with
a destination address to the destination address by bypassing
other network nodes.


8.    The mobile radio communication network as claimed in one
of claims 4 to 7,
characterized
in that the control network node (SGSN) contains the filter
function and the routing function coupled to one another such
that the data packets filtered out by the filter function on
the basis of a destination address respectively indicated in
the data packets are forwarded to the respective destination
address by the routing function by bypassing other network
nodes.